

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP 03/09338

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 F16N11/08

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 F16N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 276 492 B1 (CARROLL JOHN B) 21 August 2001 (2001-08-21) the whole document	1
A	US 6 145 625 A (ZUMBACH FERDINAND ET AL) 14 November 2000 (2000-11-14) the whole document	1
A	DE 198 43 695 A (UNILUBE AG) 6 April 2000 (2000-04-06) abstract; figures	1
A	US 2002/112759 A1 (JAEGER SIEGFRIED) 22 August 2002 (2002-08-22) abstract; figures	1

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

\* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

8 March 2004

Date of mailing of the international search report

19/03/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax (+31-70) 340-3016

Authorized officer

Mouton, J

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International Application No  
PCT/EP 03/09338

Patent document cited in search report	Publication date		Patent family member(s)	Publication date
US 6276492	B1	21-08-2001	AU BR CA ZA	7210800 A 0100370 A 2325125 A1 200101713 A
				13-09-2001 06-11-2001 07-09-2001 30-08-2001
US 6145625	A	14-11-2000	DE DE EP ES JP	19704958 A1 59808936 D1 0857910 A1 2198018 T3 10220689 A
				20-08-1998 14-08-2003 12-08-1998 16-01-2004 21-08-1998
DE 19843695	A	06-04-2000	DE	19843695 A1
US 2002112759	A1	22-08-2002	DE EP JP	10107558 A1 1235025 A1 2002339873 A
				19-09-2002 28-08-2002 27-11-2002

**BEST AVAILABLE COPY**